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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/567,283	02/03/2006	Kazuaki Fukushima	3712174.00519	9786
29175 K&L Gates LLI	7590 04/21/201 P	EXAMINER		
P. O. BOX 1133	-	QIAN, YUN		
CHICAGO, IL 60690			ART UNIT	PAPER NUMBER
			1793	
			NOTIFICATION DATE	DELIVERY MODE
			04/21/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

chicago.patents@klgates.com

	Application No.	Applicant(s)				
Office Action Commence	10/567,283	FUKUSHIMA ET AL.				
Office Action Summary	Examiner	Art Unit				
	YUN QIAN	1793				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	lely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 12 Fe	bruary 2010.					
	action is non-final.					
<i>;</i>	/ 					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>29-32 and 37-39</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>29-32 and 37-39</u> is/are rejected.						
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>03 February 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3.☑ Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) \(\overline{\text{N}} \) Notice of References Cited (PTO-892)	4) The last on the control of the co	(DTO 442)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	atent Application					

DETAILED ACTION

Status of Claims

Claims 29-32 and 37-39 remain for examination. Claims 1-28, 33-36 and 40-57 have been cancelled.

Previous Grounds of Rejection

The non-statutory obviousness-type double patenting rejection with respect to claims 29-32 and 37-39, as claiming the same invention as that of claims 1-5 of US Patent No. 7,651,803 has been withdrawn, because the Terminal Disclaimer filed on February 12, 2010 has been approved.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 29-32 and 37-39 are rejected under 35 U.S.C. 102 (e) as being anticipated by Nuber et al. (US 6,890,676).

Regarding claim 29, Nuber et al. teaches a fullerene-based proton conductor including a spacer molecule connected to the fullerene (corresponding to applicant's C_m) and a proton conductive functional group attached to the spacer molecule. The spacer molecule is selected from the group of a partially or a perfluorinated compound

such as CF₂. The proton conductive functional group is an acidic functional group, such as sulfonic acid group-SO₃H (corresponding to applicant's Gp1) (claims 1-13).

Regarding claims 30-32, as discussed above, the spacer molecule CF₂ taught by Nuber et al. corresponds to the instant claimed Cm, the proton conductive functional group of Nuber et al. corresponds to the instant claimed Gp1. It is used as proton conductors (col.1, line 10-15 and claim 1).

Regarding claim 37-39, Nuber et al. also teaches sulfoneimide linked fullerenes as shown below (col.12, lines 25-34).

It meets the claimed limitations.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YUN QIAN whose telephone number is (571)270-5834. The examiner can normally be reached on Monday-Thursday, 10:00am -4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Melvin Curtis Mayes can be reached on 571-272-1234. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/PATRICIA L. HAILEY/ Primary Examiner, Art Unit 1793 /YUN QIAN/ Examiner, Art Unit 1793 April 15, 2010